CLMPTO

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Claim 1 (Original)

1. A method for managing situations of multiple events of different type in a

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telecommunications network with a ring topology protected by a traffic protection

mechanism in which signals arranged as frames of bytes are transmitted and in which the

transmitted frames comprise a pair of event signalling bytes, wherein the method further

comprises the step of providing at least one additional pair of event signalling bytes in the

transmitted frames, the first pair of event signalling bytes being used for signalling events of

a first type, whereas the at least one additional pair of event signalling bytes being used for

signalling events of a second type.

Claim 2 (Original)

2. The method according to claim 1, wherein the first type of events comprises

span-type events only and that the second type of events comprises ring events only,

correspondingly.

Claim 3 (Original)

3. The method according to claim 1, wherein the first type of events comprises

ring-type events only and that the second type of events comprises span-type events only.

Claim 4 (Original)

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4. The method according to claim 1, wherein said telecommunications network is a transoceanic optical network comprising nodes connected through fiber spans having at

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least four fibers comprising working channels and protection channels.

Claim 5 (Original)

5. A method for managing situations of multiple events of different type in a ring

topology telecommunications network protected by a traffic protection mechanism, frame

arranged signals travelling through said network, said network comprising:

nodes or network elements; and

- fiber spans, said fiber spans connecting the network elements to form a ring,

the method comprising the step, carried out by the nodes, of receiving signal frames

comprising first event signalling bytes and wherein it comprises the further step of receiving

at least one additional pair of event signalling bytes, the first pair of event signalling bytes

being used for signalling events of a first type whereas the at least one additional pair of

event signalling bytes being used for signalling events of a second type.

Claim 6 (Original)

6. The method according to claim 5, wherein the steps of receiving signal frames

comprising first event signalling bytes and at least one additional pair of event signalling

bytes comprises the respective steps of receiving first event signalling bytes for signalling

span events only and of receiving at least one additional pair of event signalling bytes for

signalling ring events only.

Claim 7 (Original)

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7. The method according to claim 5, wherein the steps of receiving signal frames comprising first event signalling bytes and of receiving at least one additional pair of event signalling bytes comprise the respective steps of receiving first event signalling bytes for signalling ring events only and of receiving at least one additional pair of event signalling

bytes for signalling span events only.

Claim 8 (Original)

8. The method according to claim 5, wherein it comprises the additional step of processing the information carried by the first pair of event signalling bytes and by the at

least one additional pair of event signalling bytes to perform operations designed, in case of

multiple events of different type, to save as much traffic as possible.

Claim 9 (Original)

9. The method according to claim 8, wherein the step of performing operations

comprises the step of performing operations based on priority criteria between span and ring,

and the processing step comprises the step of evaluating whether operations on the paths

dictated by the less-priority request are feasible.

Claim 10 (Original)

10. A signal frame structure for telecommunications comprising a first pair of

bytes used for signalling events, wherein it further comprises at least one additional pair of

bytes used for signalling events, the first pair of bytes being used for signalling events of a

first type only whereas the at least one additional pair of bytes being used for signalling

events of a second type only.

Claim 11 (Original)

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11. The frame structure according to claim 10, wherein the first pair of event signalling bytes is used for signalling span events only and the at least one additional pair of event signalling bytes is used for signalling ring events only.

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Claim 12 (Original)

12. The frame structure according to claim 10, wherein the first pair of event signalling bytes is used for signalling ring events only and the at least one additional pair of event signalling bytes is used for signalling span events only.

Claim 13 (Original)

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13. A network element for a telecommunications network with a ring topology protected by a traffic protection mechanism, signals arranged as frames travelling through said network, said network comprising:

- nodes or network elements; and
- fiber spans, said fibers spans connecting the network elements to form a ring,
 the network element comprising means for receiving signal frames comprising
 first event signalling bytes, the network element further comprising

means for receiving at least one additional pair of event signalling bytes, the first pair of event signalling bytes being used for signalling events of a first type whereas the at least one additional pair of event signalling bytes being used for signalling events of a second type.

- 14. (Amended)A computer program comprising computer program code adapted to perform all steps of the method according to claim 1 when said program is run on a computer.
- 15. (Amended)A computer readable medium having a program recorded thereon, said computer readable medium comprising computer program code adapted to perform all steps of the method according to claim 1 when said program is run on a computer.